

# Preface

This publication contains the doctrine, organization, tactics, techniques, and procedures required to manage field artillery target acquisition (TA) organizations, systems, personnel and equipment. It updates information formerly contained in FM 6-121 and incorporates emerging doctrine and information about targeting, the military decision making process (MDMP), new equipment, and Advanced Field Artillery Tactical Data System (AFATDS) considerations as they apply to the functions performed by the targeting officer and the radar section leader.

The material contained in this manual applies to all personnel involved in the targeting and target acquisition process. These personnel include:

- Maneuver commanders and their staffs.
- Field artillery commanders and their staffs.
- Fire support element (FSE personnel).
- Members of division artillery and FA brigade tactical operations centers.
- Personnel assigned to target acquisition batteries, target acquisition detachments, and radar platoons.
- Other personnel involved in the targeting or intelligence processes.

This manual describes current and emerging TA organizations. These organizations include target acquisition batteries and radar platoons of active and reserve components, the corps target acquisition detachment (CTAD), radar platoons of the interim brigade combat team (IBCT) and interim division artillery (IDIVARTY), and the STRIKER platoon. Technical and tactical considerations for employing weapons locating radars are discussed in detail. This includes the AN/TPQ-47 that is currently being developed. New information contained in this manual includes duties and responsibilities for key TA personnel, rehearsals, stability operations and support operations, rotary and fixed wing radar movement procedures, and automated target data processing. The methodology used by weapons locating radars to acquire, track and locate threat weapon systems is also discussed.

Users at different echelons will focus on different chapters and appendices based on their specific mission requirements and operational focus. Chapter 1 discusses targeting, MDMP, and rehearsals from a target acquisition viewpoint. Chapters 2 and 3 provide information about TA organizations and TA personnel duties and responsibilities. Chapter 4 is focused on the technical aspects of employing weapons locating radars and the associated requirements. Chapter 5 discusses tactical employment and management of radar systems. This chapter provides information required for commanders and their staff to effectively employ radars in support of military operations. Finally, Chapter 6 discusses stability operations and support operations and associated radar employment considerations. The information in the supporting appendices provides the additional technical

information and procedures required to facilitate the effective employment of radar systems.

The provisions of this publication are the subject of the following North Atlantic Treaty Organization (NATO) Standardization Agreements (STANAGs) and Quadripartite Standardization Agreements (QSTAGs):

- 2008/503, Bombing, Shelling, Mortaring, and Location Reports.
- 2029/514, Methods of Describing Ground Locations, Areas, and Boundaries.

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Unless this publication states otherwise, masculine nouns and pronouns do not refer exclusively to men.
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